

ABSTRACT

The present invention provides a device useful in the photo-oxidation of a sample liquid and in the measurement of the oxidized carbon content thereof. The device comprises a cell, at least two elongate probes, and a temperature sensitive element. The cell comprises a rigid light-transmissive outer wall that encloses a continuous predetermined internal volume. The elongate probes -- providing collectively the ability to measure temperature and conductivity -- penetrate through the rigid outer wall and extend substantially into the cell's internal volume. At least one of the elongate probes is hollow at least partially along its length, the temperature sensitive element being positioned within this bore. A methodology involving the use of the device is also described.